

#12310 Store at -20C

## NKX2.2 Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H	Transfected Only	40	Rabbit	#O95096	4821

### Product Usage Information

#### Application

Western Blotting

#### Dilution

1:1000

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

### Specificity / Sensitivity

NKX2.2 Antibody recognizes transfected levels of total NKX2.2 protein.

### Species predicted to react based on 100% sequence homology:

Monkey

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala92 of human NKX2.2 protein. Antibodies are purified by protein A and peptide affinity chromatography.

### Background

The NKX family of homeobox genes are known to act as intermediaries in the neural response to Sonic hedgehog signaling during central nervous system development (1). NKX2.2 is a member of this family of transcription factors and is necessary for neuroendocrine differentiation in the central nervous system and pancreas (2,3). NKX2.2 mutant mice die shortly after birth due to incomplete differentiation of insulin-producing pancreatic  $\beta$  cells and defects in ventral neural patterning (2,3). According to the research literature, expression of NKX2.2 has also been found in neuroendocrine tumors of the gut, making it a potential marker for the study of gastrointestinal neuroendocrine tumors (4).

### Background References

1. Sander, M. et al. (2000) *Genes Dev* 14, 2134-9.
2. Sussel, L. et al. (1998) *Development* 125, 2213-21.
3. Briscoe, J. et al. (1999) *Nature* 398, 622-7.
4. Wang, Y.C. et al. (2009) *Endocr Relat Cancer* 16, 267-79.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**WB:** Western Blotting

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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